

ID AAB42252 standard; protein; 418 AA.  
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 AC AAB42252;  
 XX  
 DT 08-FEB-2001 (first entry)  
 XX  
 DE Human ORFX ORF2016 polypeptide sequence SEQ ID NO:4032.  
 XX  
 KW Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;  
 KW vulnerary; antipsoriatic; antiparkinsonian; nootropic; neuroprotective;  
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;  
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;  
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;  
 KW antiviral; antibacterial; antifungal; antirheumatic; antithyroid;  
 KW antianaemic; gene therapy; cancer; proliferative disorder; hypertension;  
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KW cholesterol ester storage; systemic lupus erythematosus; infection;  
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;  
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;  
 KW thrombosis; contraceptive.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200058473-A2.  
 XX  
 PD 05-OCT-2000.  
 XX  
 PF 31-MAR-2000; 2000WO-US008621.  
 XX  
 PR 31-MAR-1999; 99US-0127607P.  
 PR 02-APR-1999; 99US-0127636P.  
 PR 05-APR-1999; 99US-0127728P.  
 PR 30-MAR-2000; 2000US-00540763.  
 XX  
 PA (CURA-) CURAGEN CORP.  
 XX  
 PI Shimkets RA, Leach M;  
 XX  
 DR WPI; 2000-602362/57.  
 DR N-PSDB; AAC76461.  
 XX  
 PT Novel nucleic acids and peptides derived from open reading frame X,  
 PT useful for treating e.g. cancers, proliferative disorders,  
 PT neurodegenerative disorders and cardiovascular disease.  
 XX  
 PS Claim 11; Page 3218-3219; 5507pp; English.  
 XX  
 CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,  
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX  
 CC sequences have activities such as: cytostatic; hepatotropic; vulnerary;  
 CC antipsoriatic; antiparkinsonian; nootropic; neuroprotective; osteopathic;  
 CC anticonvulsant; antiarthritic; immunosuppressant; immunostimulant;  
 CC cardiant; thrombolytic; coagulant; vasotropic; antidiabetic; hypotensive;  
 CC dermatological; immunosuppressive; antiinflammatory; antibacterial;  
 CC antiviral; antifungal; antirheumatic; antithyroid; and antianaemic. The

CC sequences can be used for determining the presence of or predisposition  
 CC to, or preventing or treating pathological conditions associated with an  
 CC ORFX-associated disorder. The nucleic acids can be used to express ORFX  
 CC proteins in gene therapy vectors. The proteins and nucleic acids may be  
 CC used to treat cancers, proliferative disorders, neurodegenerative  
 CC disorders, osteoarthritis, graft vs host disease, cardiovascular disease,  
 CC diabetes mellitus, hypertension, hypothyroidism, cholesterol ester  
 CC storage, systemic lupus erythematosus, severe combined immunodeficiency  
 CC (SCID), AIDS, viral, bacterial or fungal infection, malaria, autoimmune  
 CC disorders, asthma, allergies, aplastic anaemia, burns, wounds, bone and  
 CC cartilage damage, nocturnal haemoglobinuria, antiinflammatory disease; to  
 CC enhance coagulation; to inhibit thrombosis; and as a contraceptive  
 XX

SQ Sequence 418 AA;

SQ 23 A; 34 R; 17 N; 23 D; 0 B; 1 C; 25 Q; 49 E; 0 Z; 22 G; 7 H;

SQ 20 I; 28 L; 43 K; 6 M; 16 F; 20 P; 21 S; 25 T; 2 W; 13 Y; 22 V;

SQ 1 Others;

XAENASLAKL RIERESALEK LRKEIAGFEQ QKAKELARIE EFKKEEMRKL QKERKVFKEY  
 TTAARTFFDK KEREIIQTLK QQIADLREDL KRKETKWSST HSRLRSQIQM LVRENTDLRE  
 EIKVMERFRL DAWKRAEAE SSLEVEKKDK LANTSVRPQN SQISSGTQVE KYKKNYLPMQ  
 GNPFRRSKSA PPRDLGNLDK GQAASPREPL EPLNFPDPEY KEEEDQDIQ GEISHPDGKV  
 EKVKNGCRV ILFFNGTRKE VSADGKTITV TFFNGDVQV MPDQRVIYY AAAQTTHTY  
 PEGLEVLHFS SGQIEKHYPD GRKEITFPDQ TVKNLFDPDQ EESIFPDGTI VRVQRDGNKL  
 IEFNNGQREL HTAQFKRREY PDGTVKTVYA NGHQETKYRS GRIRVKDKEG NVLMDTEL

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